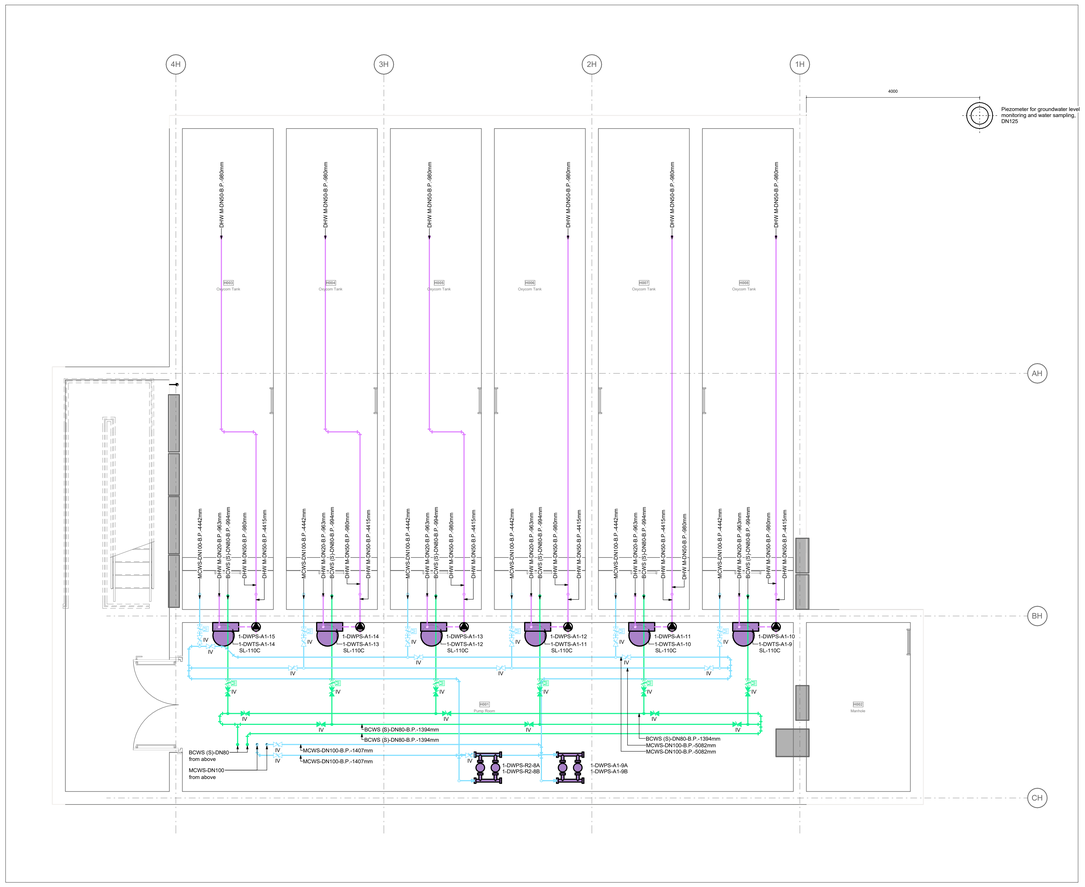
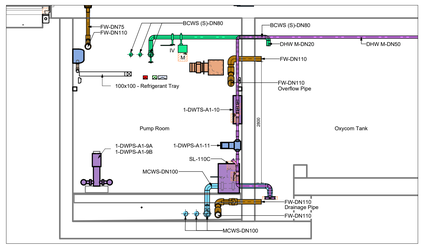


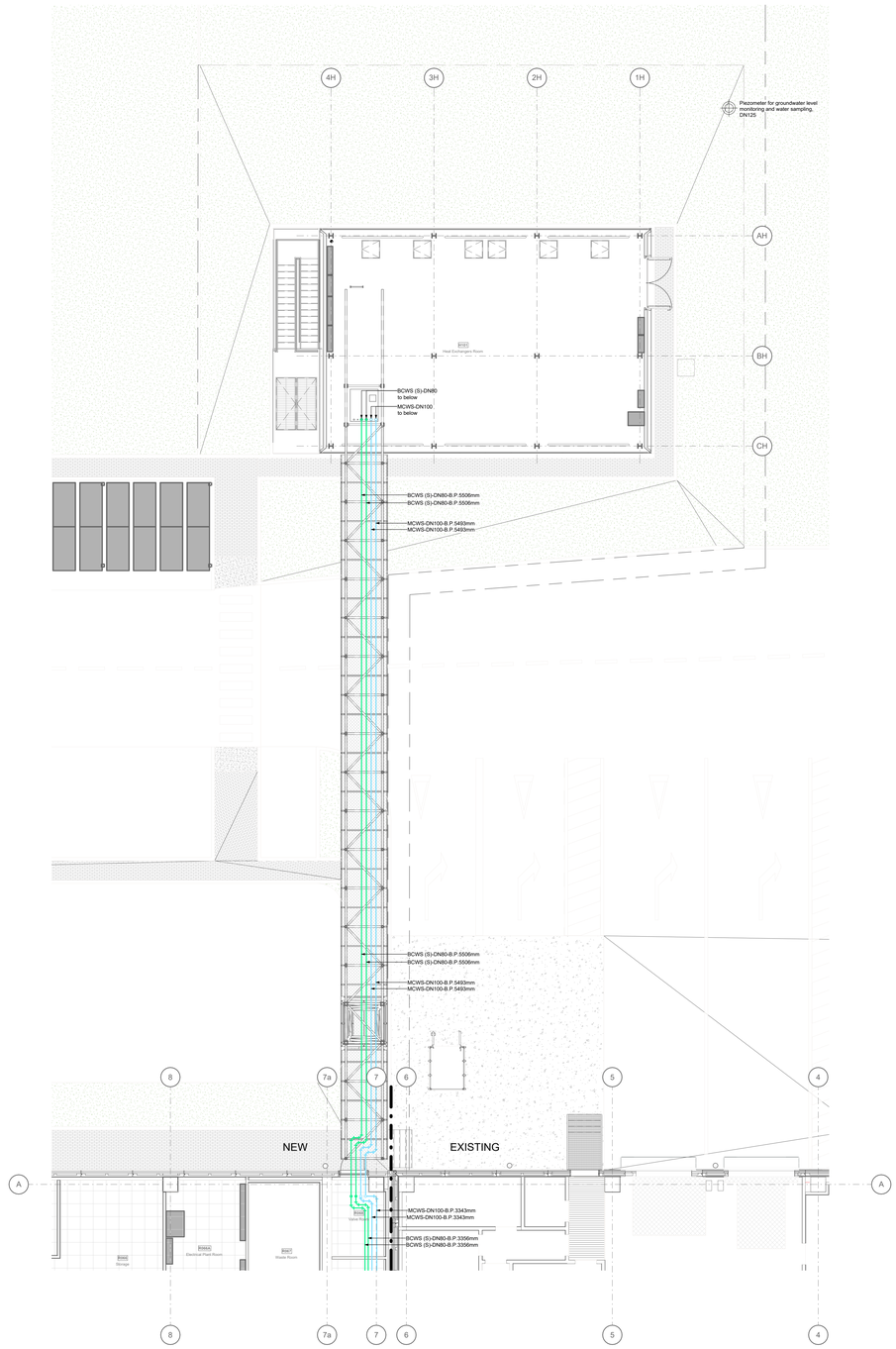

## Water Services Layout - Below Ground

Scale 1 : 50



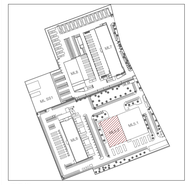

## Section Oxycom

Scale 1 : 50




## Water Services Layout - Ground Floor

Scale 1 : 100




KEYPLAN

27/03/2026
17:00:09

## GENERAL NOTES:

1. This drawing indicates RIBA Stage 4 design information for ML5 Building 2, defining the principles of the MEP services. The level of detail shown is in line with this stage of design development as defined by the BSRIA Design Framework B6 G/2018. Due consideration shall be made when interpreting the design intent;
2. Current Building 2 phases are: ML5.4, ML5.5, ML5.PII AND ML5.A1. For the phase of the drawings please refer to the drawing title;
3. This drawing should be read in conjunction with the architectural and MEP drawings, work package scope of works, Equinix Global Design Standards and compliance checklist and all other supporting technical information forming part of the ML5 building 2 tender package;
4. All dimensions in mm unless otherwise stated;
5. All the dimensions must be checked on site by the contractor;
6. Do not scale this drawing, use figured dimensions only;
7. All the sections are orthogonal to the reference axes, unless noted otherwise;
8. All plant and equipment is to be installed to manufacturer's recommendations, allowing full access for commissioning, maintenance and removal/replacement;
9. The current RIBA 4 design is based on the information provided in the Building 1 as built package. GC is in charge to verify and check on site the information reported in the as built and to fully coordinate the Building 2 design package with the existing.
10. All the MEP elements marked in grey are related to the previous phases;

## WATER SERVICES NOTES:

1. The Contractor shall refer to the water services schematics for all water services pipework sizes;
2. The Contractor shall provide provision for supply and installation of expansion loops, anchor point/sand bellows for all water services pipework;
3. All water services pipework shall be insulated against heat loss, heat gain and condensation;
4. All external water services pipework shall be insulated, and trace heated. Insulation shall be compatible with trace heating tape;
5. All hot water flow and return pipework shall be extended down from main run to thermostatic valve or fitting;
6. The Contractor shall confirm that the final circulating pump size and return pipe sizing is verified against the final selection of static regulating and automatic thermal balancing valves;
7. All water services connections to fittings shall be hard plumbed. No flexible hoses will be accepted;
8. The Contractor shall install drain points at all low points within the pipework systems to allow for full drain down of the systems;
9. Access shall be provided to all valves and pipe lines ancillaries;
10. All meters, alarm and plant controls shall relay back to the BMS for monitoring;
11. All equipment shall feature appropriate backflow prevention, or provided within the supply line;
12. Type 2 thermostatic safety valves shall be provided on WHB's and showers. Either seperate valves or integral to the outlet fitting;
13. Hydraulic disconnectors shall achieve fluid category 4 as per EN1717;
14. Hydraulic disconnectors shall be provided with a tundish and discharge over a trapped gully or drain point;
15. Where hot water is not thermostatically controlled, the tap / appliance shall be supplied with a notice, warning building users of very hot water;
16. All water fitting outlets shall be fitted with inbuilt TMV's.
17. Provide a minimum of 10Ø straight pipe length upstream and 5Ø downstream of the flow transmitter for accurate measurement. (i.e. the pipe is 250Ø, so pipe before the meter needs to be a minimum length of 2500mm).
18. The average evaporation rate for the chiller is 1,900 L/h, it is need a third Aquamizer per chiller as per schematic "ML5-04-DR-P-602-XX-ZZ-DOMW-ARP".

## WATER SERVICES LEGEND:

| | |
|---|---|
| MCWS | MAIN COLD WATER SERVICE PIPE |
| BCWS (S) | BOOSTED COLD WATER SERVICE SOFTENED WATER LINE PIPE |
| CW CAT5 B | BOOSTED COLD WATER SERVICE CAT5 WATER LINE PIPE |
| XXX YY | WATER SERVICES MECHANICAL COMPONENTS:<br>XXX = COMPONENT IDENTITY CODE<br>YY = TYPOLOGICAL CODE |
| | FLOW DIRECTION |
| XX% | PIPE SLOPE |

## ABBREVIATIONS:

| | |
|---|---|
| TA / TB | TO ABOVE / TO BELOW |
| HL / LL | HIGH LEVEL / LOW LEVEL |
| FATB | FROM ABOVE TO BELOW |
| B.P. | BOTTOM OF PIPE |

| Rev | Date | By | Chkd | Appd |
|---|---|---|---|---|
| P01 | 27/03/2026 | OO | DA | SC |
| 100% Issue | | | | |
| P00 | 27/02/2026 | OO | DA | SC |
| Bluebeam comments | | | | |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Project Title
**ML5 Building 2 Riba 4 Design February 2026 Revision**

Drawing Title
Technical Rooms
Water Services Layout

Scale 1:100
Role Public Health Services
Arup Job N° **314277 - 00**
Rev P01
Prog. -
Name **ML5-04-DR-P-131-XX-TR-DOMW-ARP**

Do not scale

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